of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 22:09:10 ON 05 AUG 2007

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

TOTAL

ENTRY

SESSION

0.21

21 0.21

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 AUG 2007 HIGHEST RN 944028-34-6 DICTIONARY FILE UPDATES: 3 AUG 2007 HIGHEST RN 944028-34-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

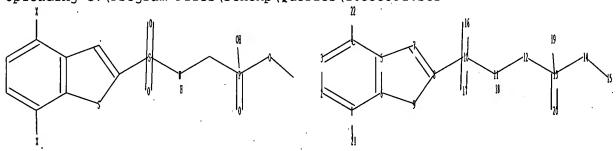
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

Uploading C:\Program Files\Stnexp\Queries\10535391.str



chain nodes :

10 11 12 13 14 15 16 17 18 19 20 21 22

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-21 4-22 8-10 10-11 10-16 10-17 11-12 11-18 12-13 13-14 13-19 13-20 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

5-7 6-9 7-8 8-9 8-10 10-11 10-16 10-17 11-12 13-14 14-15

exact bonds :

1-21, 4-22 11-18 12-13

normalized bonds :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

1 ANSWERS

=> s l1 full

FULL SEARCH INITIATED 22:10:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 326 TO ITERATE

100.0% PROCESSED 326 ITERATIONS

SEARCH TIME: 00.00.01

1 SEA SSS FUL L1

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ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
657406-69-4 REGISTRY
ED Entered STN: 03 Mar 2004
Phosphonic acid, [[[(4,7-dichlorobenzo[b]thien-2-y1)sulfonyl]amino]methyl]-, mono[2,2,2-trifluoro-1-(4-fluoro-3-methoxyphenyl)ethyl] ester (9CI) (CA INDEX NAME)

HF C18 H14 C12 F4 N O6 P S2
CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 174.50 174.71

FILE 'CAPLUS' ENTERED AT 22:10:35 ON 05 AUG 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 5 Aug 2007 VOL 147 ISS 7 FILE LAST UPDATED: 3 Aug 2007 (20070803/ED)

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http://www.cas.org/infopolicy.html

=> s 12

L3 3 L2

=> d 13 1-3 ibib abs hitstr

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L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:464674 CAPLUS
DOCUMENT NUMBER: 144:488511
TITLE: Preparation of sulfonamidomet
                                                                                     Preparation of sulfonamidomethyl and carboxamidomethyl
                                                                                     phosphonate inhibitors of B-lactamase
Besterman, Jeffrey M.; Rahil, Jubrail; Vaisburg,
 INVENTOR (S):
                                                                                     Arkadii
                                                                                     Arkadı
Methylgene, Inc., Can.
U.S. Pat. Appl. Publ., 131 pp., Cont.-in-part of U.S.
ST. No. 411,484.
CODEN: USXXCO
  PATENT ASSIGNEE(S):
SOURCE:
                                                                                    Patent
English
  DOCUMENT TYPE:
LANGUAGE:
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                  PATENT NO.
                                                                                     KIND
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                                                                                                                                                    APPLICATION NO.
                                                                                                                                                                                                                                  DATE
PATENT NO.

US 2006105999
US 2004029836
US 6884791
US 2004082546
US 6921756
WO 20040048393
W: AE, AG, AI
CO, CR, CL
GM, HR, HL
LS, LT, LU
PG, PH,
TR, TT, TZ
RW: EW, GH, GK
ES, FI, FR
TR, BF, BJ
PRIORITY APPLN. INFO.:
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                                                                                                                                                  , BB, BG, BR, BY, EC, EE, ES, FI.

KE, KG, KP, KR, KG, KP, KR, MN, MW, MX, MZ, SE, SG, SK, SL, VM, YU, 2A, ZM, SL, SZ, TZ, UG, BE, BG, CH, CY, UU, MC, NL, PT, GM, GQ, GW, ML, US 2002-302124

WO 2003-US36929

US 1999-1422629

US 1999-1422629

US 2000-210456

US 2002-266213
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, SE, SI, SK,
, NE, SN, TD,
A2 20021122
A2 20030408
W 20031119
P 19990706
A2 20000705
A2 200021008
```

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

OTHER SOURCE(S):

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

The intention relates to bacterial antibiotic resistance and, in particular, to compns, and methods for overcoming bacterial antibiotic resistance. The invention provides novel β-lactamase inhibitors I [R1 = (un)substituted (hetero) aryl; 2 = C, CH2, S₁ n = 0-2; L = alkyl, alkoky, CO, C(:NOMe); R2 = H, alkyl, cycloalkyl, aralkyl, aryl; R3 = H, alkyl, cycloalkyl, aryl; R3 = H, alkyl, cycloalkyl, aryl; R3 = H, alkyl, cycloalkyl, etc.; R7 = H, alkyl, cycloalkyl, etc.; with the provises] such as II [R1 = (un)substituted Ph or thien-2-yl; L = a bond, CH2O, CO, or C(:NOMe); R5 = halo, or OR1O (wherein R1O = (un)substituted Ph, pyridinyl, or quinolinyl); provided that when L = CH2O, R5 is not F or 4-NO2C6H4 which are structurally unrelated to the natural product and semi-synthetic β-lactamase inhibitors presently available and which do not require a β-lactame pharmacophore. The invention also provides pharmaceutical compns, and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.g., a 4-step synthesis of sodium salt of III which showed [C50 of 622 μM against β-lactamase, was given.

657406-69-4P
RL: PAC (Pharmacological activity), SPN (Synthetic preparation); TMU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses)
(preparation of sulfonamidomethyl and carboxamidomethyl phosphonate
P-lactamase inhibitors and their antibacterial use)
657406-69-4 CAPLUS
Phosphonic acid, {{{4,7-dichlorobenzo{b}thien-2-yl}sulfonyl}amino]methyl}, mono{{2,2,2-trifluoro-1-{4-fluoro-3-methoxyphenyl}ethyl} ester (9CI) (CA
INDEX NAME)

L3 ANSWER 2 OF 3
ACCESSION NUMBER:
DOCUMENT NUMBER:
1111E:
1NVENTOR(S):
CAPLUS COPYRIGHT 2007 ACS on STN
2004:353142 CAPLUS
140:357:200
Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate inhibitors of β-lactamase
Besterman, Jeffrey M., Rahil, Jubrail, Vaisburg, Arkadil Besterman, Jeffrey M., Rahil, Jubrail, Vaisburg, Arkadii Methylgene, Inc., Can. U.S. Pat. Appl. Publ., 134 pp., Cont.-in-part of U.S. Pat. Appl. 2004 29,836. CODEN: USXXCO Patent English 4 PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE APPLII
20040429 US 20
20050726
20021029 US 20
200400212 US 20
20050426 US 20
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20040619 VO 20
20040819 AU, AZ, BA, BB,
UK, DM, DZ, BC,
IM, IS, JP, KE,
MD, MG, MK, MN,
RW, SC, SD, SE,
US, UZ, VC, VN,
TJ, TM, AT, BE,
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TJ, TM, AT, BE,
CO040618 US 20
US 20 PATENT NO. KIND APPLICATION NO. DATE A1 B2 B1 A1 B2 A1 B2 A2 A3 AM, AT, CZ, DE, ID, IL, LV, HA, PT, RO, UA, UG, KE, LS, MD, RU, GB, GR, CF, CG, A1 US 2003-411484 20030408 US 2000-610456 US 2002-266213 20000705 20021008 US 2002-302124 20021122 WO 2003-US36929 20031119 2003-US 309 CS

B, BG, BR, BY, BC, EC, EE, ES, FI, E, KG, KP, KR, M, MW, MZ, E, SG, SK, SL, M, YU, 2A, ZM, L, S2, T2, UG, UG, MC, NL, PT, M, GQ, GW, ML, 12003-295638 12005-53591 1999-142362P 2000-610456 12002-266213 12002-302124 12003-US 36929 BZ, CA, CH, CN, GB, GB, GB, GB, GB, GB, GB, GH, KZ, LC, LK, LR, NN, NO, NZ, OM, SY, TJ, TM, TJ, TM, ZW ZM, ZW, AM, NE, SM, TD, 20031119 20050518 P 19990706 A2 2000103 A2 20021102 A1 20030408 W 20031119 AL, CU, HU, LU, FL, TZ, GM, KZ, FR, BJ, OTHER SOURCE(S): MARPAT 140:357200

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
The intention relates to bacterial antibiotic resistance and, in
particular, to compns. and methods for overcoming bacterial antibiotic
resistance. The invention provides novel β-lactamase inhibitors I
[R1 = (un)substituted (hetero)ary1 Z = C, CH2, S; n = 0-2; L = alky1,
alkoxy, CO, C(INOMe); R2 = H, alky1, cycloalky1, aralky1, ary1; R3 = H,
alky1, cycloalky1, ary1, etc., R4 = OH, F, SR7, N(R7)2; R5 = F, OR6, SR7,
N(R7)2; R6 = H, alky1, cycloalky1, etc.; R7 = H, alky1, cycloalky1, etc.;
with the provisos) which are structurally unrelated to the natural product
and semi-synthetic β-lactamase inhibitors presently available and
which do not require a β-lactamase inhibitors presently available and
which do not require a β-lactamase inhibitors presently available and
provides pharmaceutical compns. and methods for inhibiting bacterial
growth. Preparation of compds. 1 is described. E.g., a 4-step synthesis of
sodium salt of II which showed IC50 of 622 μM against β-lactamase,
657(06-69-4P
RL: PAC (Pharmacological activity), SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(Uses)
(preparation of sulfonamidomethyl and carboxamidomethyl phosphonate
Palactamase inhibitors and their antibacterial use)
657406-69-4 CAPLUS
Phosphonic acid, [[[(4,7-dichlorobenzo[b]thien-2-yl)sulfonyl]amino]methyl], mono[2,2-trifluoro-1-(4-fluoro-3-methoxyphenyl)ethyl] ester (9CI) (CA
INDEX NAME)

REFERENCE COUNT

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

The intention relates to bacterial antibiotic resistance and, in particular, to compns. and methods for overcoming bacterial antibiotic resistance. The invention provides novel β-lactamase inhibitors I [Rl = (un)substituted (hetero)aryl, 2 = C, CH2, S, n = 0-2 when 2 = S, n = 1 when Z = C, n = 0 when Z = CH2, L = alkyl, alkowy, CO, C(:NOMe); R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, aryl, etc., R4 = OH, F, SR7, N(R7)2; R6 = H, alkyl, cycloalkyl, etc.; R7 = H, etc.; R7 = H, etc.; R1 = H,

REFERENCE COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:120574 CAPLUS DOCUMENT NUMBER: 140:181318
TITLE: Preparation of sulfonamidome Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate inhibitors of β-lactamase Besterman, Jeffrey M., Rahil, Jubrail, Vaisburg, INVENTOR (S): Arkadii Arkadii Methylgene, Inc., Can. U.S. Pat. Appl. Publ., 96 pp., Cont.-in-part of U.S. Ser. No. 266,213. CODEM: USKXCO PATENT ASSIGNEE(S): SOURCE: Patent English DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO.

US 2004029936
US 6884791
US 6472406
US 2004059115
US 7030103
US 2004082546
US 6921756
WO 2004048393
W: AE, AG, AI
CO, CR, CI
GM, HR, HL
LS, LT, LI
PG, PH, PI
TR, TT, TR
W: BW, GH, GR
ES, FI, FI
AU 2003295538
US 2005043276
US 2006105999
PRIORITY APPLN. INFO.: AT 20040212

AT 20040212

B1 20021029

A1 20040212

B2 20050426

B1 20021029

B2 20050726

A2 20040610

A3 20040610

A3 20040610

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CZ, DE, DK, DM,

DM, AT, AU, AZ,

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LV, MA, MD, MG,

FT, RO, RU, SC,

UA, UG, US, UZ,

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MD, RU, TJ, TM,

AT, 20040618

A1 20050224

A1 20050518 20021122 US 2002-302124 US 2000-610456 US 2002-266213 20000705 20021008 US 2003-411484 20030408 WO 2003-US36929 20031119 BA, BB, BG, BR, BY, BZ, DZ, EG, EE, ES, FI, GB, JP, KE, KG, KP, KR, KZ, MK, MM, MZ, MZ, MI, SD, SE, SG, SK, SL, SY, CV, VN, VI, VI, ZA, ZM, ZW, SD, SL, SZ, TZ, UG, ZM, AT, BE, BG, GH, CY, CZ, TI, LU, MC, NL, PT, RO, GA, GN, GC, GM, ML, MR, AU 2003-295638 US 2005-535391 US 1999-142362P PUS 2000-610456 AUS 2002-266213 AUS 2002-262121 AUS 2003-0211484 AUS 2003-011484 AUS 2003-011484 ZW, AM, AZ, DE, DK, EE, SE, SI, SK, NE, SN, TD, 20031119 20040705 A2 20021026 A2 20021026 A2 20031129 A2 20031119

MARPAT 140:181318

OTHER SOURCE(S):

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Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 22:23:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 326 TO ITERATE

100.0% PROCESSED 326 ITERATIONS

204 ANSWERS

SEARCH TIME: 00.00.01

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L6 4 L5

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L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2006:464674 CAPLUS DOCUMENT NUMBER: 144:488511
TITLE: Preparation - 5 . . .
                                             Preparation of sulfonamidomethyl and carboxamidomethyl
INVENTOR (S):
```

phosphonate inhibitors of  $\beta$ -lactamase Besterman, Jeffrey M.; Rahil, Jubrail; Vaisburg,

PATENT ASSIGNEE(S):

Arkadı Methylgene, Inc., Can. U.S. Pat. Appl. Publ., 131 pp., Cont.-in-part of U.S. Ser. No. 411,484. CODEN: USXXCO SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:							
PATENT NO.		APPLICATION NO.	DATE				
US 2006105999	A1 20060	518 US 2005-535391					
US 2004029836			20021122				
US 6884791	B2 20050	1426					
US 2004082546	A1 20040	429 US 2003-411484	20030408				
US 6921756	B2 20050	726					
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WO 2004048393							
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		IS, JP, KE, KG, KP, KR,					
		MG, MK, MN, MW, MX, MZ,					
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		TM, AT, BE, BG, CH, CY,					
		IE, IT, LU, MC, NL, PT,					
		CM, GA, GN, GQ, GW, ML,					
PRIORITY APPLN. INFO.		US 2002-302124					
TRIORITI ATTEM IMOT		US 2003-411484					
		WO 2003-U536929					
		US 1999-142362P					
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		US 2002-266213					
OTHER SOURCE(S):	MARPAT 144:4		A2 20021008				

L6 ANSWER 2 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
1NVENTOR(S):
2004:353142 CAPLUS
140:357200
Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate inhibitors of 8-lactamase
Besterman, Jeffrey M., Rahil, Jubrail, Vaisburg, Arkadii
Methylgene, Inc., Can.
U.S. Pat. Appl. Publ., 134 pp., Cont.-in-part of U.S. Pat. Appl. 2004 29,836.
CODEN: USXXCO
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
4

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  US 2004082446 Al 20040429 US 2003-411484 20030408 US 6921755 B2 20050726 US 6472406 B1 20021029 US 2000-610456 20000705 US 7030103 B2 20050418 US 7030103 B2 20060418 US 7030103 B2 20060418 US 200409316 B2 20060418 US 200409316 B2 20060418 US 200408393 A2 20060610 WC 2003-02124 20021122 US 6884791 B2 20050426 WC 2004048393 A2 20060610 WC 2003-US36929 20031119  W': AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CC, CE, DC, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, FP, KE, KG, KP, KR, KZ, LC, LK, LR, PC, HH, LL, LL, LV, LM, AM, DM, MG, MM, MM, MK, MZ, NI, NO, NZ, OM, PC, PH, FL, PT, RO, US, UZ, VP, VY, UZ, ZM, ZM, ZM, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NI, FR, TR, TT, TR, TT, TR, TT, TR, TB, TB, CT, CC, CI, CM, GM, GM, GM, GM, CM, MR, NE, MZ, NI, NO, NZ, CM, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NI, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CC, CI, CM, GM, GM, GM, CW, ML, HR, NE, SN, TD, TG AU 2003295658 A1 20060518 A2 20000705 US 2003-2052627 P 19990706 US 2003-2062213 A2 20021029 US 2003-101464 A1 20030009 US 2003-101464 A1 20030009 US 2003-101464 A1 20030009 US 2003-101464 A1 20030009 US 2003-101464 A1 20030109 US 2003-101464 A1 20030009 US 2003-101464 A1 20030109 US 2003-101464 A1 20030109												
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ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

The intention relates to bacterial antibiotic resistance and, in particular, to compns, and methods for overcoming bacterial antibiotic resistance. The invention provides novel β-lectamase inhibitors I [RI - (un)substituted (hetero)aryl, Z - C, CH2, S, n = 0-2; L - alkyl, alkony, CO, C(:NOMe); R2 - H, alkyl, cycloalkyl, aralkyl, aryl, R3 - H, alkyl, cycloalkyl, aryl, etc., R4 - OH, F, SR7, N(R7)2; R5 - F, ORG, SR7, N(R7)2; R6 - H, alkyl, cycloalkyl, etc., with the provisos] such as II [RI - (un)substituted Ph or thien-2-yl L - abond, CH2O, CO, or C(:NOMe); R5 - halo, or OR10 (wherein R10 - (un)substituted Ph, pyridinyl, or quinolinyl), provided that when L - (UH2O, R5 is not F or 4-NO2CGH4) which are structurally unrelated to the natural product and semi-synthetic β-lactamase inhibitors presently available and which do not require a β-lactam pharmacophore. The invention also provides pharmaceutical compns, and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.q., a 4-step synthesis of sodium salt of III which showed ICSO of 622 μM against β-lactamase, was given.

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
AB The intention relates to bacterial antibiotic resistance and, in particular, to compns, and methods for overcoming bacterial antibiotic resistance. The invention provides novel β-lactamase inhibitors I [RI - (un)substituted (hetero)aryl; Z - C, CH2, S; n = 0-2; L = alkyl, alkyo, CO, C(iNOMel); R2 - H, alkyl, cycloalkyl, aryl; R3 - H, alkyl, cycloalkyl, etc.; R7 - H, alkyl, cycloalkyl, etc.; with the provisos] which are structurally unrelated to the natural product and semi-synthetic β-lactamase inhibitors presently available and which do not require a β-lactam pharmacophore. The invention also provides pharmaceutical compns, and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.g., a 4-step synthesis of sodium salt of II which showed ICSO of 622 μM against β-lactamase, was given.

REFERRENCE COUNTI 4 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
140:181318
Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate inhibitors of p-lactamase
Besterman, Jeffrey M., Rahil, Jubrail, Vaisburg, Arkadii
Methylgene, Inc., Can.
SOURCE:
CODEN: U.S. Pat. Appl. Publ., 96 pp., Cont.-in-part of U.S. Ser. No. 266,213.
CODEN: USXXCO
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT INFORMATION:
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CO, CR, CU,
CM, HR, HU,
LS, LT, LU,
PG, PH, PL,
TR, TT, TZ,
RW: EW, GH, GM,
AW, ES, FI, FR,
TR, BF, BJ,
AU 2003295638 AU 2003295638 US 2005043276 US 2006105999 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 140:181318

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:31512 CAPLUS
DOCUMENT NUMBER: 34:55480
Sulfonamidomethyl phosphonate inhibitors of plactamase
PATENT ASSIGNEE(S): Besterman, Jeffrey M.; Delorme, Daniel; Rahil, Jubrail Methylgene Inc., Can.
PCT Int. Appl., 95 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Patent
EANGUAGE: English
FAMILY ACC. NUM. COUNT
4

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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OTHER SOURCE(S): MARPAT 134:95400

AB The intention relates to bacterial antibiotic resistance and, in particular, to compns. and methods for overcoming bacterial antibiotic resistance. The invention provides novel \$\beta\$-lactamase inhibitors which are structurally unrelated to the natural product and semi-synthetic \$\beta\$-lactamase inhibitors presently available and which do not require a \$\beta\$-lactamapharmacophore. The invention also provides pharmacoutical compns. and methods for inhibiting bacterial growth. Preparation of compds, is also described.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The intention relates to bacterial antibiotic resistance and, in particular, to compns. and methods for overcoming bacterial antibiotic resistance. The invention provides novel β-lactamase inhibitors I [RI = (un)substituted (heterolaryI, Z = C, CHZ, S; n = 0 - 2 when Z = S; n = 1 when Z = C; n = 0 when Z = CHZ; L = alkyI, alkoxy, CO, C(!NOMe); RZ = H, alkyI, cycloalkyI, etc.; R3 = H, alkyI, aryI, etc.; R4 = CHJ, F, SR7, N(R7)Z; R5 = F, OR6, SR7, N(R7)Z; R6 = H, alkyI, cycloalkyI, etc.; R7 = H, alkyI, cycloalkyI, etc.; with the provisos] which are structurally unrelated to the natural product and semi-synthetic β-lactamase inhibitors presently available and which do not require a β-lactam pharmacophore. The invention also provides pharmaceutical compns. and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.g., a 4-step synthesis of sodium salt of II which showed 1C50 of 622 μM against β-lactamase, was given.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT